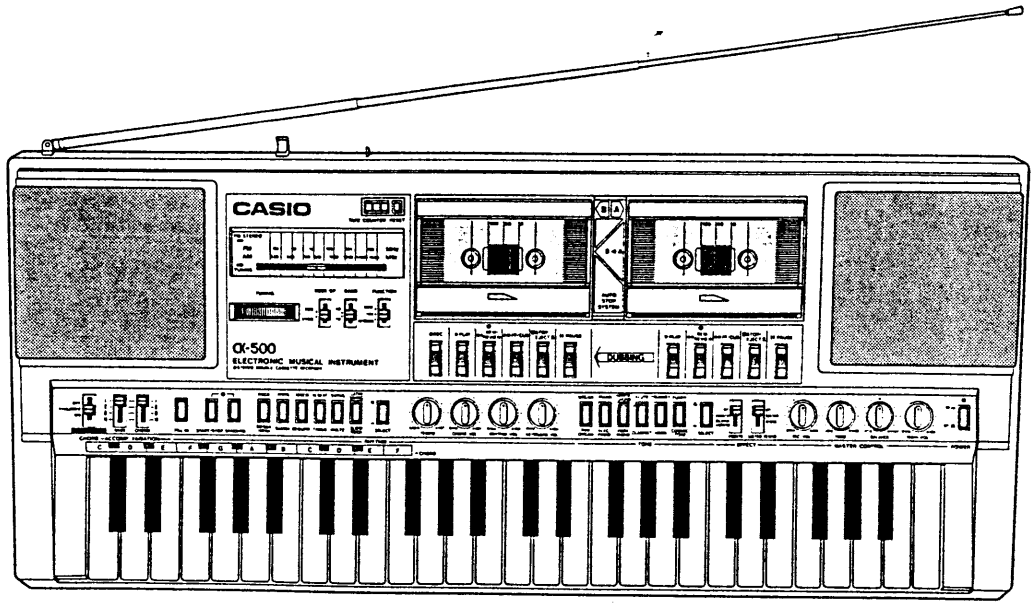
SPARE PARTS MASTER

# CASIO CK-500

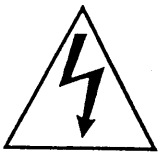

Operation Manual 1
Manual de Operación 33


英西

CASIO®

"WARNING" TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."

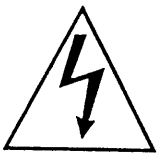


**CAUTION**

**RISK OF ELECTRIC SHOCK DO NOT OPEN**

ATTENTION: RISQUE DE CHOC ELECTRIQUE-NE PAS OURVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
NO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

"This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turing the equipment off and on, the user is encouraged to try to currect the interference by one of more the following measures:

Reorient the receiving antenna

Relocate the computer with respect to the receiver

Move the computer away from the receiver

Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio/TV Interference Problems"
This booklet is available from the U.S. Government Printing Office Washington, D.C. 20402
Stock No. 004-000-00345-4

# Safety Instructions

1. Read Instructions — All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions — The safety and operating instructions should be retained for future reference.
3. Heed Warnings — All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and use instructions should be followed.
5. Water and Moisture — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, tec.
6. Ventilation — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
7. Heat — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. Power Sources — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
9. Power-Cord Protection — Power-Supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
10. Cleaning — The appliance should be cleaned only as recommended by the manufacturer.
11. Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
12. Object and Liquid Entry — Case should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
13. Damage Requiring Service — the appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
14. Servicing — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

# CASIO CK-500

## ELECTRONIC MUSICAL INSTRUMENT

● STEREO DOUBLE CASSETTE RECORDER

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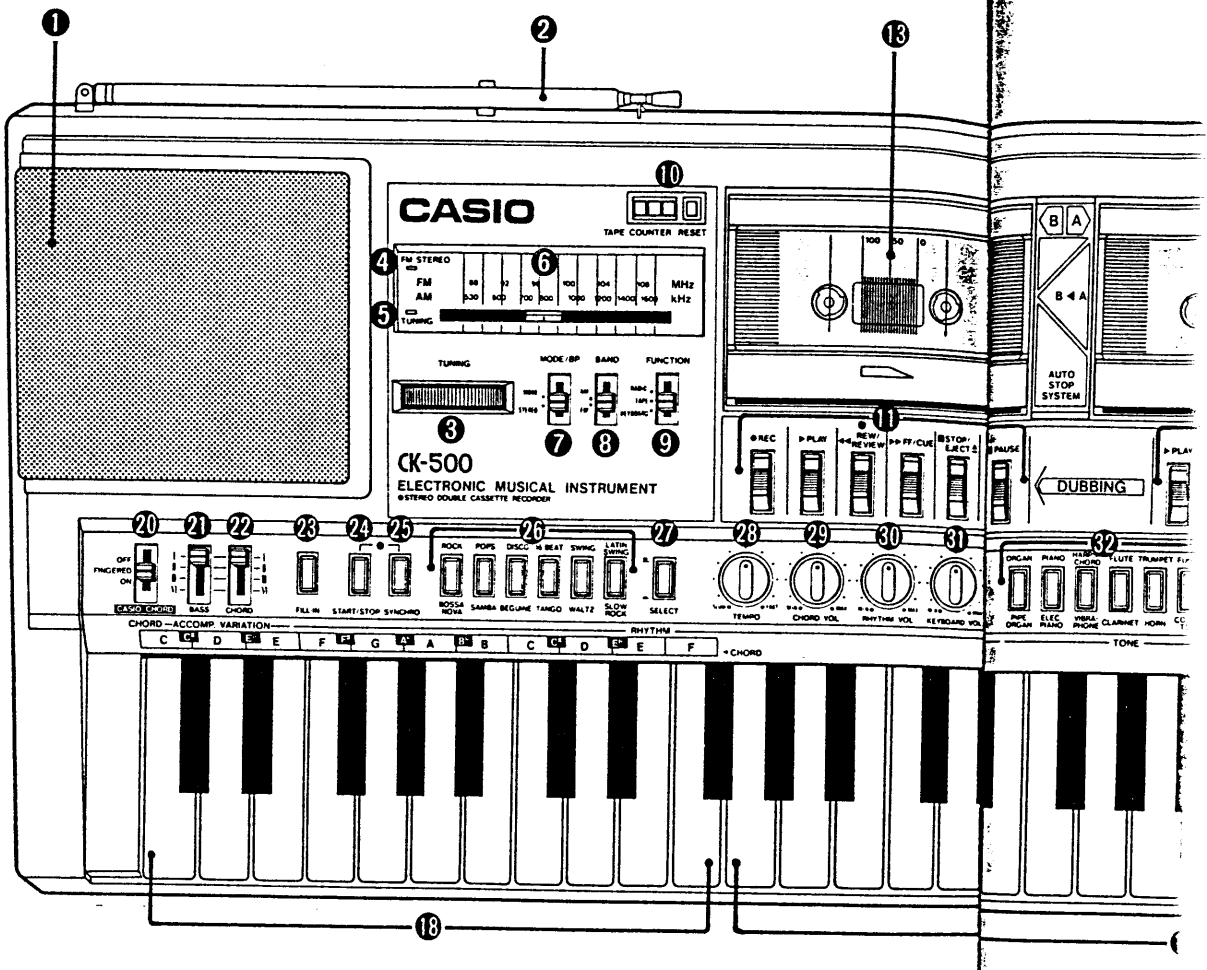
# GUIDE TO EACH PART




❶ **Speaker (left)**

❷ **Rod antenna** — Extend it when listening to FM music.

❸ **Tuning dial** — Used to tune the tuner to your disired station.

❹ **FM Stereo indicator** — Lights when tuned to an FM stereo radio station, but when radio waves are so weak or the FM mode switch ❼ is set to "MONO", it remains off.

❺ **Tuning indicator** — Comes on when tuned to a radio station.

❻ **Dial/Dial pointer**

❼ **FM MODE/BEAT CUT switch**

| | |
|---|---|
| STEREO: | Set when listening to FM stereo music. |
| MONO: | Set if reception is bad or interfered with noise when listening to FM stereo music. |
| BEAT CUT I/II: | Change over the switch when beats are heard while recording AM radio. (Normally, set the switch to "I".) |

❽ **BAND switch**

| | |
|---|---|
| AM: | Set when listening to AM radio. |
| FM: | Set when listening to FM radio. |

❾ **Funct**
RADIC
TAPE:
KEYBC

❿ **COUI**

⓫ **Casse**
PAUSE
SATOI
F.F./CU
REW/R
PLAY:
REC:

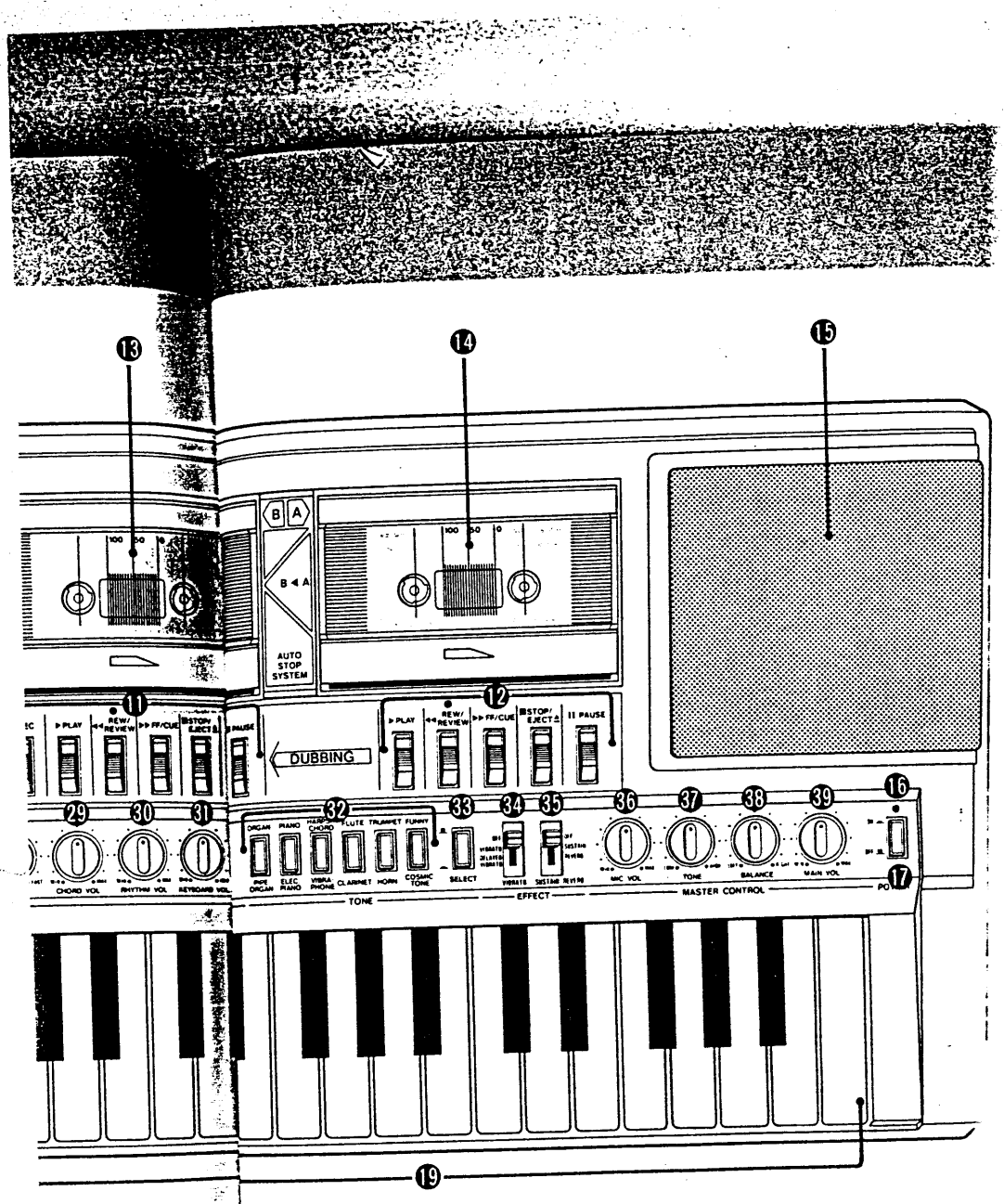
⓬ **Casse**
Same

⓭ ⓮ **Cas**

⓯ **Speal**

⓰ **Powe**

⓱ **Powe**




radio waves
remains off.

FM stereo

radio. (Nor-

**❾ Function switch**

RADIO: Used when listening to radio or recordi
TAPE: Used when listening to tape or dubbing
KEYBOARD: Used when playing the keyboard, mixing or recording.

**❿ COUNTER and Reset button** — Indicates the tape p

**⓫ Cassette operating buttons (B deck)**

PAUSE: Press it to stop the tape temporarily, a
SATOP/EJECT: Press it to stop the tape, and to eject the
F.F./CUE: Press it to fast forward the tape or to
REW/REVIEW: Press it to rewind the tape or to repea
PLAY: Press it to play back the tape or to cu
REC: Press it to make a recording.

**⓬ Cassette operating buttons (A deck)**

Same as ⓫ except REC button.

**⓭ ⓮ Cassette holder** — Used to hold a cassette.

**⓯ Speaker (Right)**

**⓰ Power on indicator** — Comes on when the power s

**⓱ Power switch** — Used to turn on and off.

⑱ **Accompaniment keyboard** — When the Casio Chord Switch is on, the lower one-and-a-half octaves of the keybord become exclusively accompaniment keyboard keys.

⑲ **Melody keyboard** — When the Casio Chord Switch is on, these keys work as a melody keyboard.

⑳ **Casio chord switch** — Turns Auto-Accompaniment (Casio Chord System) on and off.

㉑ **Bass variation switch** — Select some bass variation.

㉒ **Chord variation switch** — Select some chord variation.

㉓ **Fill-in button** — If pressed during rhythm play, fill-in (percussive grace) is accomplished.

㉔ **Start/stop button** — Each time you want the rhythm to start or stop, simply press this button.

㉕ **Synchro start button** — When this button is pressed, the Tempo Indicator Lamp will light and synchro-start will go to a "wait condition". (One more press will cancel the "wait condition".) The rhythm will start from the first beat the moment the accompaniment keys are pressed (lower one-and-a-half octaves).

㉖ **Rhythm selection button** — Press a button to select the desired rhythm. When two or more Rhythm Selection buttons are pressed, only one of them is selected.

㉗ **Select button** — When pressed on, the rhythm written below the Rhythm Selection buttons will be selected.

㉘ **Tempo control knob** — The rhythm tempo can be adjusted.

㉙ **Chord volume control knob** — Adjusts the volume of the chord. Turning it to the right increases the volume.

㉚ **Rhythm volume control knob** — Adjusts the volume of the rhythm. Turning it to the right increases the volume.

㉛ **Keyboard volume control knob** — Adjusts the volume of the keyboard. When Auto-Accompaniment is used, it adjusts only the volume of melody keyboard. Turning it to the right increases the volume.

㉜ **Sound selection button** — Press to select a desired preset sound.

㉝ **Select button** — When pressed on, the sound written below the Sound Selection buttons will be selected.

㉞ **Vibrato switch** — Select a normal vibrato effect, a vibrato that chases the original sound or off.

㉟ **Sustain/reverb. switch** — Select sustain effect, reverb effect, or off.

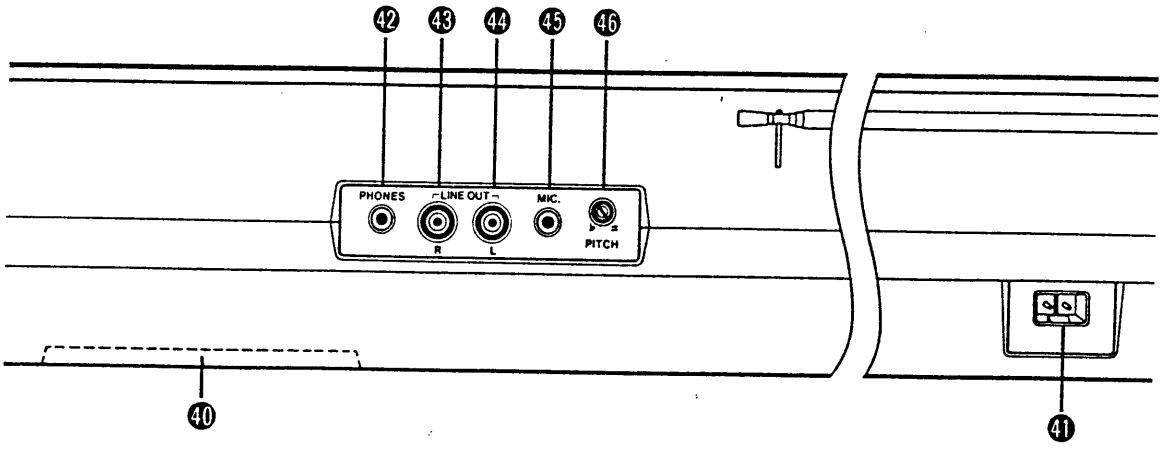
㊱ **MIC vol. knob** — Controls the volume level during recording through a microphone or mic-mixing recording (combined recording of microphone output and tape output signals).

㊲ **Tone control knob** — Controls the tone quality for speakers and headphones.

㊳ **Balance control knob** — Adjusts the balance between the volume levels of both right and left speakers and headphones. The center is the standard position.

㊴ **Main volume control knob** — Controls the volume levels of both right and left speakers and headphones simultaneously.

## ■ REAR PANEL (external equipment connections and pitch control)



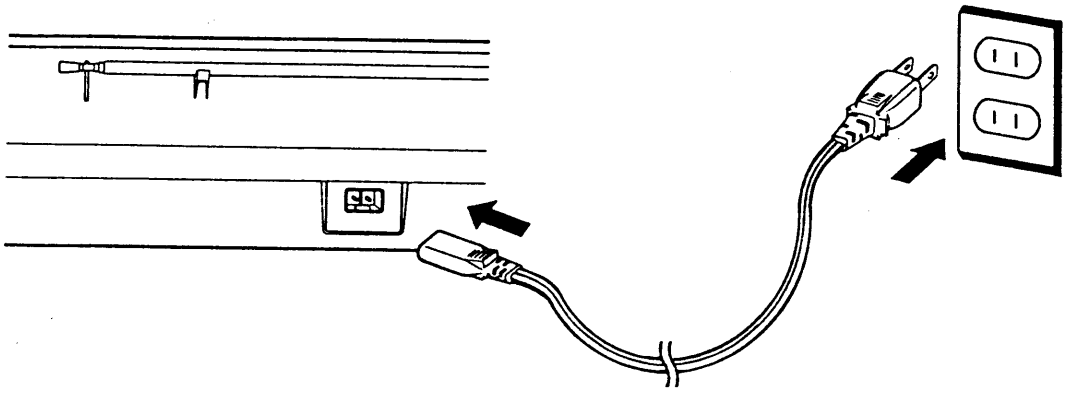

**40 Battery box cover** — Open and insert six D-size dry batteries.
**41 AC IN jack** — Used to connect the unit to a wall-socket by the power cord (accessory). When connected, the power is automatically switched from the batteries to mains supply.
**42 Headphone jack** — Connect headphones. When headphones are pluged in, the speakers are automatically disconnected.
**43 LINE OUT jack (right channel)**
**44 LINE OUT jack (left channel)**
**45 MIC jack** — Used to connect a microphone for recording or mic-mixing recording. When no recording is made, disconnect the microphone.
**46 Pitch control knob** — This adjusts the entire keyboard within 1/4 tone (50 cents) and gives easy tuning with other instruments.

# POWER SUPPLY

The CK-500 can be driven on both AC and DC power.

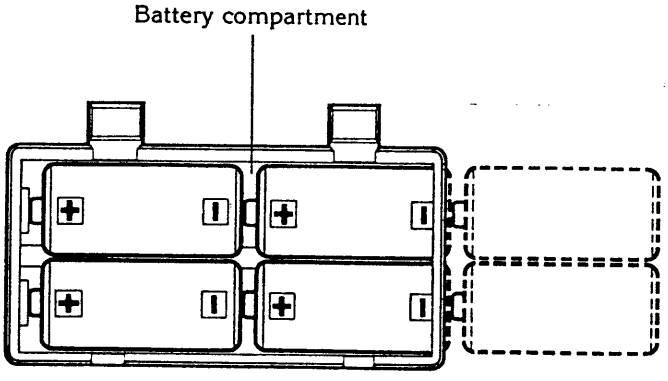
## AC power

Connect the provided AC power cord to the AC power socket on the CK-500 and plug it into an AC outlet.



## DC power

Open the battery compartment cover on the back of the unit and install six D-size (SUM-1) manganese dry batteries, making sure the ⊕ and ⊖ terminals are aligned correctly.






● Batte

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| | |
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| With hi<br>SUM-1 | |
| With<br>type A | |

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**Notes**

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2. Pleas
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4. Do nc
5. Do n

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## ● Battery Life and Battery Replacement

When tape speed becomes slower, sound is distorted or volume too low, please replace all 6 batteries with new ones.

| Unit | FM Recording time* | Music Tape Playback time* | Manual playing time* |
|---|---|---|---|
| With high performance type SUM-1 batteries | Approx. 14 hrs. | Approx. 14 hrs. | Approx. 18 hrs. |
| With alkaline-manganese type AM-1 batteries | Approx. 33 hrs. | Approx. 33 hrs. | Approx. 40 hrs. |

* Measurements according to EIAJ standards. For Auto Play time and manual playing time battery life, about two hours of playing a day were taken as a standard.

### Notes on Battery Use

Incorrect use of batteries can lead to fluid leakage or explosion. Please note the following points caefully:

1. Please insert the batteries with the poles +, – facing in the right direction.
2. Please make sure that all batteries are of the same type.
3. Do not use new batteries and used batteries together.
4. Do not attempt to recharge the batteries.
5. Do not dispose of batteries in fire, short circuit them, open them or heat them.

## ● For longer Battery Life

* Your batteries will last longer if you do not use them continuously over long periods, but turn off the power for a while after 1 or 2 hours of use.

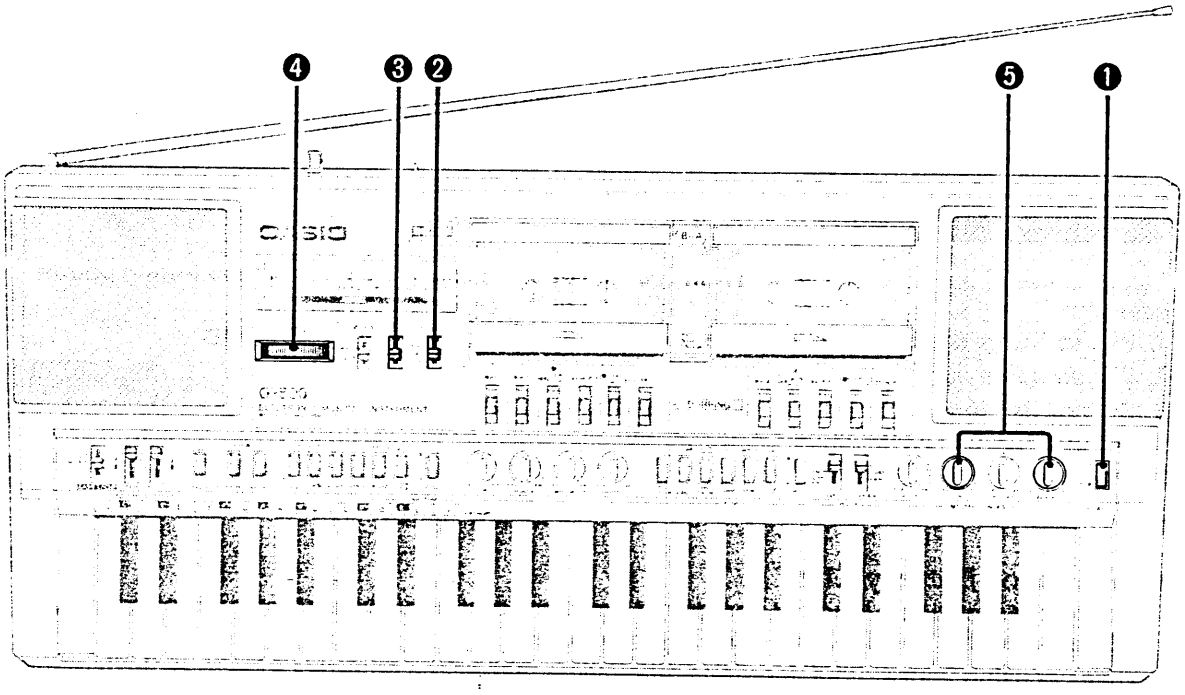
* When not using your CK-500 for a long time, please remove the batteries so as to avoid damage due to leakage etc.

* The batteries will last longer if all 6 of them are always replaced at the same time.

# USE AS A RADIO

## ● Listening to Radio

❶ Turn the POWER switch to "ON".
❷ Set the function switch to "RADIO".
❸ Set the BAND switch to "AM" or "FM".*
❹ Tune the radio to your desired station by turning the TUNING dial.
❺ Properly adjust the volume level and tone quality by turning the VOLUME knob and the tone control knob.

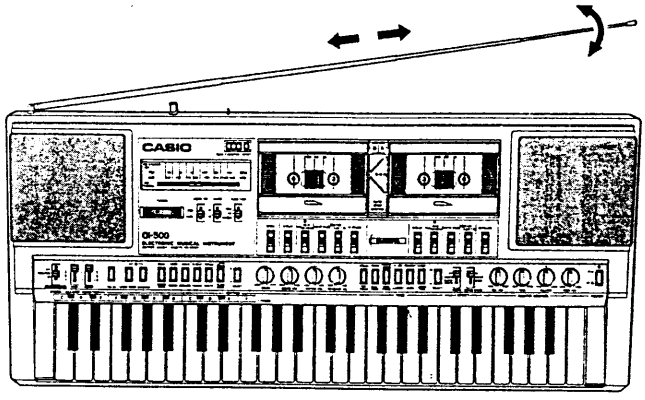



* The illustration and explanation above are for the specifications for the U.S.A. and Canada. The received frequency ranges and number of bands vary as shown below, depending on the area of use.

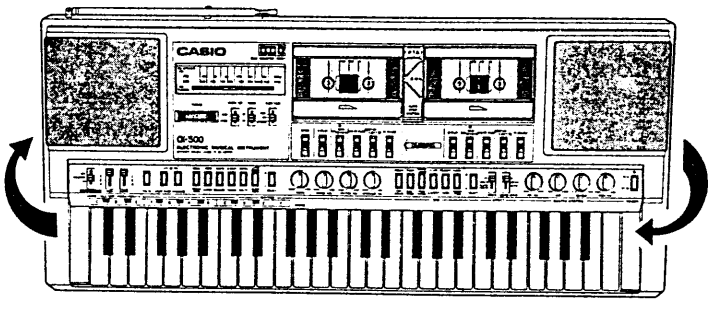
| | No. of bands | Received Frequency Ranges | | | |
|---|---|---|---|---|---|
| | | FM | AM (MW) | LW | SW |
| U.S.A., Canada | 2 | 88 ~ 108 MHz | 515 ~ 1630 KHz | — | — |
| European countries | 3 | 88 ~ 108 MHz | 515 ~ 1630 KHz | 150 ~ 360 KHz | — |
| Middle East, Latin America, Southeast Asia, Africa, Oceania | 3 | 88 ~ 108 MHz | 515 ~ 1630 KHz | — | 7 ~ 22 MHz |

## Antenna adjustment

- **Receiving FM radio or wireless microphone output:**
  Extend the rod antenna and set the antenna position so that reception is the best.

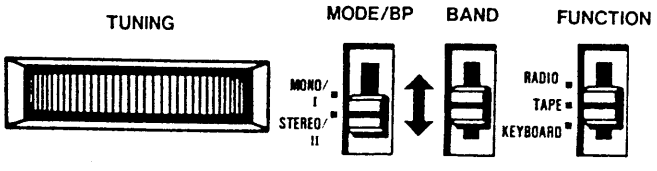



- **Receiving AM radio:**
  The built-in ferrite antenna works. Being directional, it should be positioned so that reception is the best.




## Receiving FM radio

When listening to FM radio, normally set the FM mode switch to "STEREO" so that FM stereo music can be enjoyed with the FM STEREO indicator turned on.
Reception from a remote FM station or inside a concrete building tends to be poor.
If poor, set the FM MODE switch to "MONO".



# USE AS A KEYBOARD INSTRUME

## ■ Starting to play

This CK-500 has various functions but, first of all, let's try a few sounds at random ing these basic operations please read each section of this manual.

**①Turn the Power Switch on.**

- Turn the power switch on. The power indicator lamp will come on.

ON

OF

**②Turn the Casio Chord Switch**

* This switch should be set to "OFF" position except using the Casio Chord Function.

FINGE

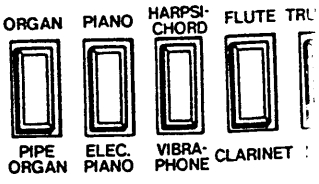
**③Adjust the volume**

- Set the Keyboard Volume Control to an initial position as illustrated.

- Set the Main Volume Control Knob to an initial position as illustrated.

**④Now, start playing**

- Adjust the volume to a comfortable level while pressing the keys.
- Experiment with 20 preset sounds by using the Sound Selection Buttons (See

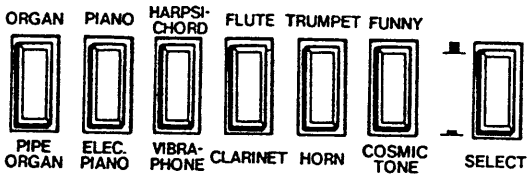


## ■ Preset sound

- **Use of the Preset Sound/Sound Effect**
- **Selecting a Preset Sound**

  Press the Sound Selection Button of the desired preset sound. When the Select Button is pressed, the preset sound written below the buttons is selected.

  * When two or more Sound Selection Buttons are pressed, only one of them is selected.




- **Adding the Vibrato Effect**

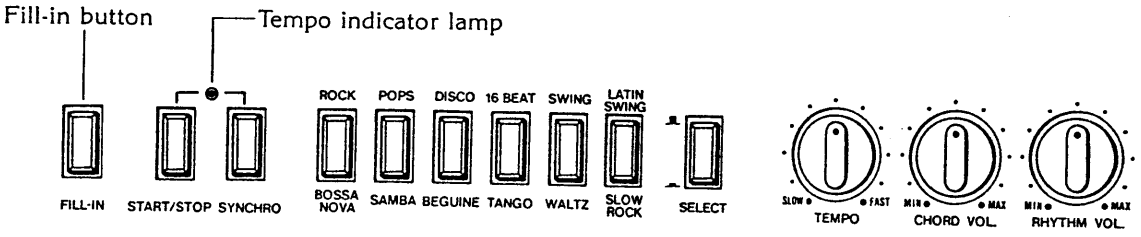
  The vibrato effect slightly vibrates the sound to give it a delicate, emotional expression. Two types of vibrato effect can be obtained with the Vibrato Switch.

  OFF ..... When the vibrato effect is not required.
  VIBRATO ..... For a normal vibrato effect.
  DELAYED VIBRATO ..... To give a vibrato effect that chases the original sound.

- **Sustain/Reverb. Effects**

  With the switch at "SUSTAIN", sounds linger even after your fingers are removed from the keyboard. "REVERB." effect will give your performance the ambience of a large concert hall.

## ■ Auto-rhythm

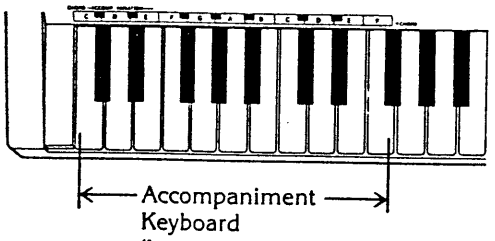



- **Choosing your rhythm**
  Select the desired rhythm using the Rhythm Selection Buttons. When the Select Button is pressed the rhythm written below the buttons is selected.
  Note: Even if several Rhythm Selection Buttons are pressed at the same time, the rhythms are not combined.

- **Fill-in Button**
  If pressed during rhythm play, fill-in (percussive grace) will be delivered.

- **Start/Stop Button**
  Each time you want the rhythm to start or stop, simply press this button.

- **Synchro-Start Button**
  When this button is pressed the tempo indicator lamp will light and synchro-start will go to a "wait condition". (One more press will cancel the "wait condition").
  The rhythm will start from the first beat at the moment accompaniment keys are pressed (lower one-and-a-half octaves).




- **Tempo Indicator Lamp**
  Lights up on the first beat of the rhythm during rhythm play. It continues to light up in the synchro-start "wait condition".

- **Tempo Control Knob**
  Adjusts the rhythm speed. Turning the Knob to the right increases the tempo.

- **Accompaniment Volume Control Knob**
  Adjusts the volume of the accompaniment (chord, bass, arpeggio). Turning the Knob to the right increases the volume.

- **Rhythm Volume Control Knob**
  Adjusts the volume of the rhythm. Turning the Knob to the right to increases the volume.

**Note:** The Main Volume Control Knob controls overall volume, so no accompaniment sound or rhythm sound will be produced if the Main Volume Control Knob is at minimum.

## ■ Auto-accompaniment (Casio Chord System)

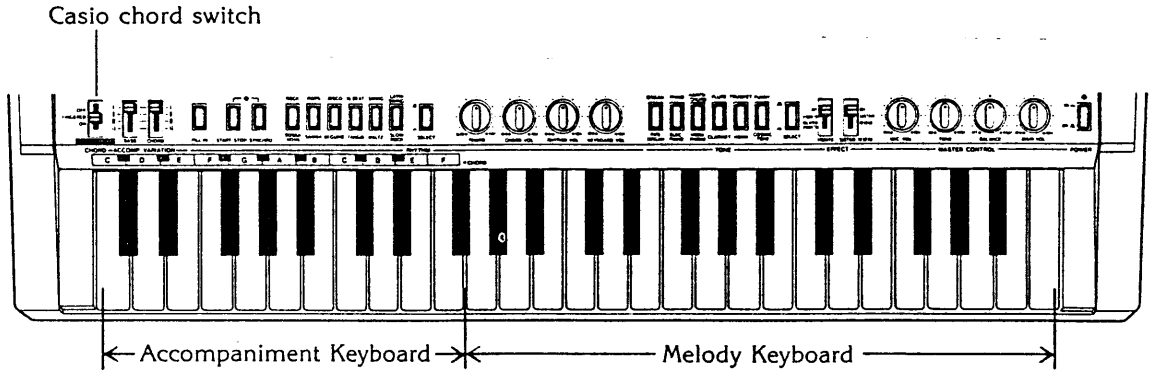
Keyboards are generally played by using the right hand for the melody and left hand for the accompaniment. This is very difficult for beginners. But with Casio's Auto-Accompaniment feature (Casio Chord System), anybody can play chords, bass with rhythm simply by using one finger.

### • Casio Chord Switch

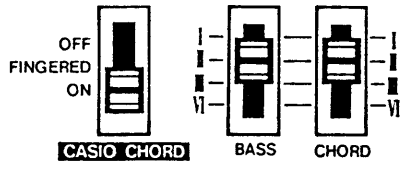
Turns Auto-Accompaniment on and off.

OFF ..... For normal playing without auto-accompaniment.
FINGERED ..... For auto-accompaniment by playing the chord. (See page 16)
ON ..... For auto-accompaniment using the one-finger method. (See page 15)

* If the Casio Chord Switch is set to the "FINGERED" or "ON" position, the lower one-and-a-half octaves become exclusively accompaniment keyboard keys. Accompaniment (chord and bass sound) will be synchronized with the rhythm and will continue to sound, even if your fingers are removed from the keys, until the next keys are pressed.
* Auto-Accompaniment does not function without Auto-Rhythm, and continuous sound will be produced.




### Use of the Accompaniment Variation Switches



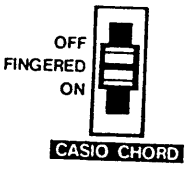

Four kinds (I to IV) of bass and chord patterns can be selected for each rhythm. Set each switch on the Accompaniment Variation Section to any position according to your selection of accompaniment style.

* These switches do not function if the Casio Chord Switch and/or the auto-rhythm are set to "OFF".
* The sounds of bass and chord vary with the Rhythm Selection or the Accompaniment Variation, regardless of Auto-Rhythm.
* Set both of switches to position I for a typical accompaniment style of each rhythm.

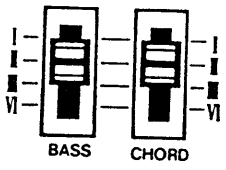
## • For Auto-Accompaniment using the one-finger method

①Turn the Casio Chord Switch on.

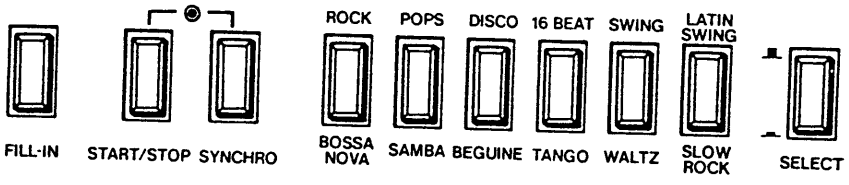
* The other switches may be in any position. Select according to the desired effects.




②Set the Accompaniment Variation Switches to any position according to your accompaniment style.



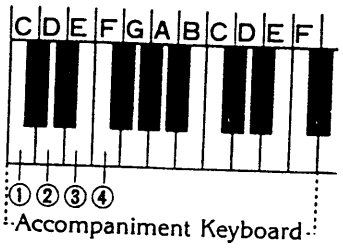

③Start any one of the Auto-Rhythms.




④Press one of the accompaniment keyboard keys. A major chord and bass sound will be automatically played along with the rhythm.

### Relationship of the chord to the fingered keyboard keys

When the Casio Chord Switch is on, if one accompaniment keyboard key is pressed, it becomes the major chord of that note and the appropriate bass sound is played automatically. When you want to make this a minor chord, press any key on the accompaniment keyboard which is to the right of that note. Under the same conditions, if one more key (three keys in total) is pressed, it becomes a seventh chord. If four keys are pressed, it will be a minor seventh chord.




**(Example)**

C (C major chord) —— Press ①.
CM (C minor chord) —— Press ①, ② together.
C7 (C seventh chord) —— Press ①, ②, ③ together.
CM7 (C minor seventh chord) —— Press ①, ②, ③, ④ together.

* Not only ②, ③ and ④, but any black or white keys can be used as long as they are to the right of ①.

**Note:** When the Casio Chord Switch is on, the automatically played chords are one of four kinds —— major, minor, seventh or minor seventh.

- **For Auto-Accompaniment by playing chords.**

①Set the Casio Chord Switch to "FINGERED".
②Select and start an Auto-Rhythm.
③Play a chord using the Accompaniment keyboard keys. The chord and bass sounds will be played automatically along with the rhythm.

- **Keyboard Volume Control Knob**

Adjusts the volume of the keyboard. When Auto-Accompaniment is used, this knob can control only the volume of the melody keyboard.

**MIXING**

This CK-500 can be used for mixing (See page 23).

- **List of Preset Sound**

CK-500 has 12 kinds of preset sounds. Note ranges and sounds are varied to achieve individual preset sound characteristics.

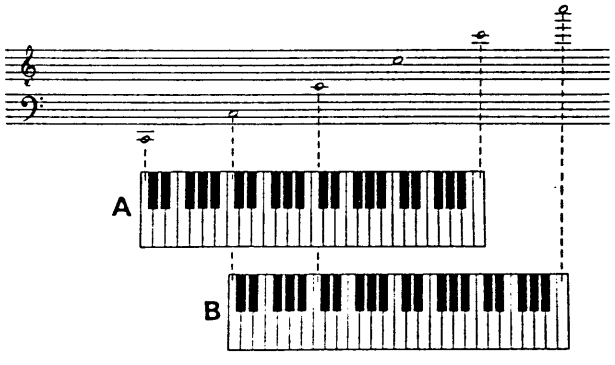
**How to Read the Chart**

Note Range: Codes (A, B) in the note range column are shown below. "○" symbol denotes a sustained sound (a sound which continues as long as the keys are being pressed). A blank denotes a fading sound (a sound which fades even though the keys remain pressed).

| Preset sound names | Note range | Sound |
|---|---|---|
| ORGAN | A | ○ |
| FLUTE | B | ○ |
| TRUMPET | A | ○ |
| PIANO | A | |
| HARPSICHORD | B | |
| FUNNY | A | |

| Preset sound names | note range | Sound |
|---|---|---|
| PIPE ORGAN | A | ○ |
| CLARINET | A | ○ |
| HORN | A | ○ |
| ELECTRIC PIANO | A | |
| VIBRAPHONE | A | |
| COSMIC TONE | A | ○ |

- **Note Range**
- **The note range of the whole keyboard.**
(Casio Chord Switch at "OFF".)

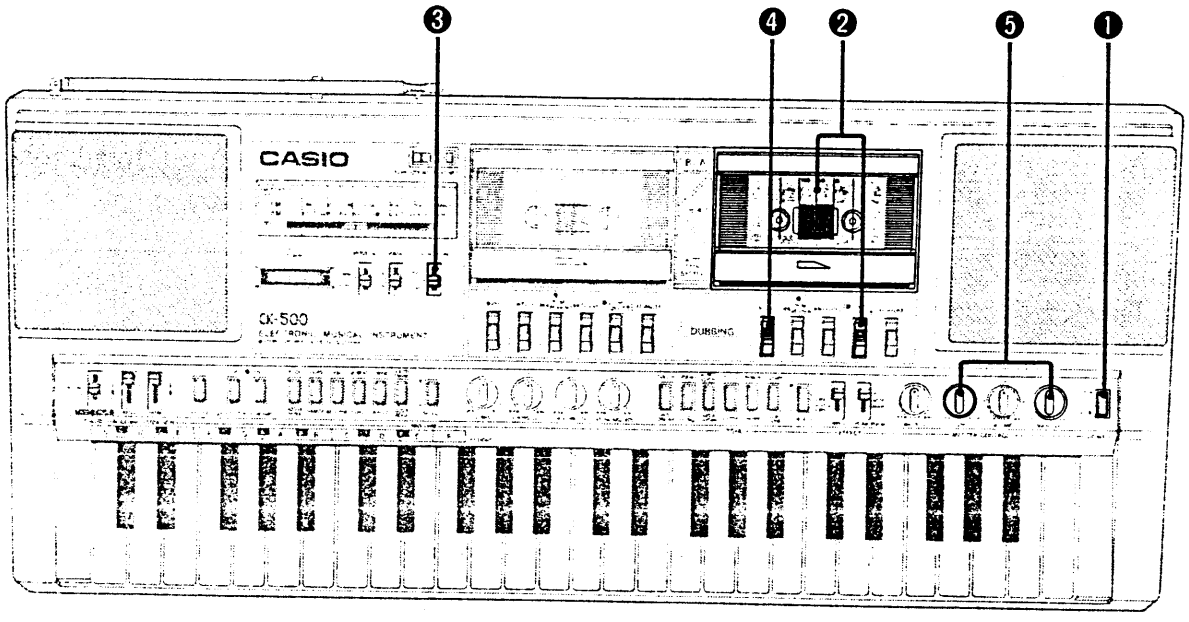



A ..... TRUMPET, PIANO, FUNNY, PIPE ORGAN, CLARINET, HORN, ELECTRIC PIANO, VIBRAPHONE, COSMIC TONE.
B ..... ORGAN, FLUTE, HARPSICHORD.

* The sounds of the accompaniment keyboard (chords, arpeggio, bass) vary with the Rhythm Selection or the Accompaniment Variation, regardless of Auto-Rhythm.

# USE AS A DOUBLE CASSETTE RECORDER

## ■ To play back a recorded tape




### • Playback using the A deck only

❶ Turn the POWER switch to "ON".
❷ Press "EJECT", one of the cassette operating buttons, and insert a cassette tape into the cassette holder, with the recorded side facing upward. Close the cassette holder cover. (See page 27)
❸ Set the function switch to "TAPE".
❹ Press "PLAY" of the cassette operating buttons.
❺ Properly adjust the volume level and tone quality by turning the VOLUME knob and the TONE CONTROL control knob.

### • Playback using the B deck only

Proceed as specified in 2. to 5. above.

### • Simultaneous playback

The two cassette tapes loaded in the A and B decks can be played back simultaneously and a mixing of recordings on the tapes can be reproduced.

### • Fast forward

Press the F.F./CUE button, and the tape is taken up fast by the righthand reel. When fast forwarding is over, press the STOP/EJECT button.

### • Rewinding

Press the REW/REVIEW button, and the tape is wound fast around the lefthand reel. When rewinding is over, press the STOP/EJECT button.

- **Fast forwarding or rewinding during playback**

Press the F.F./CUE or the REW/REVIEW button hard during playback. With this button being pressed, the tape travels fast forward or backward, and the moment that the button is released, playback begins.

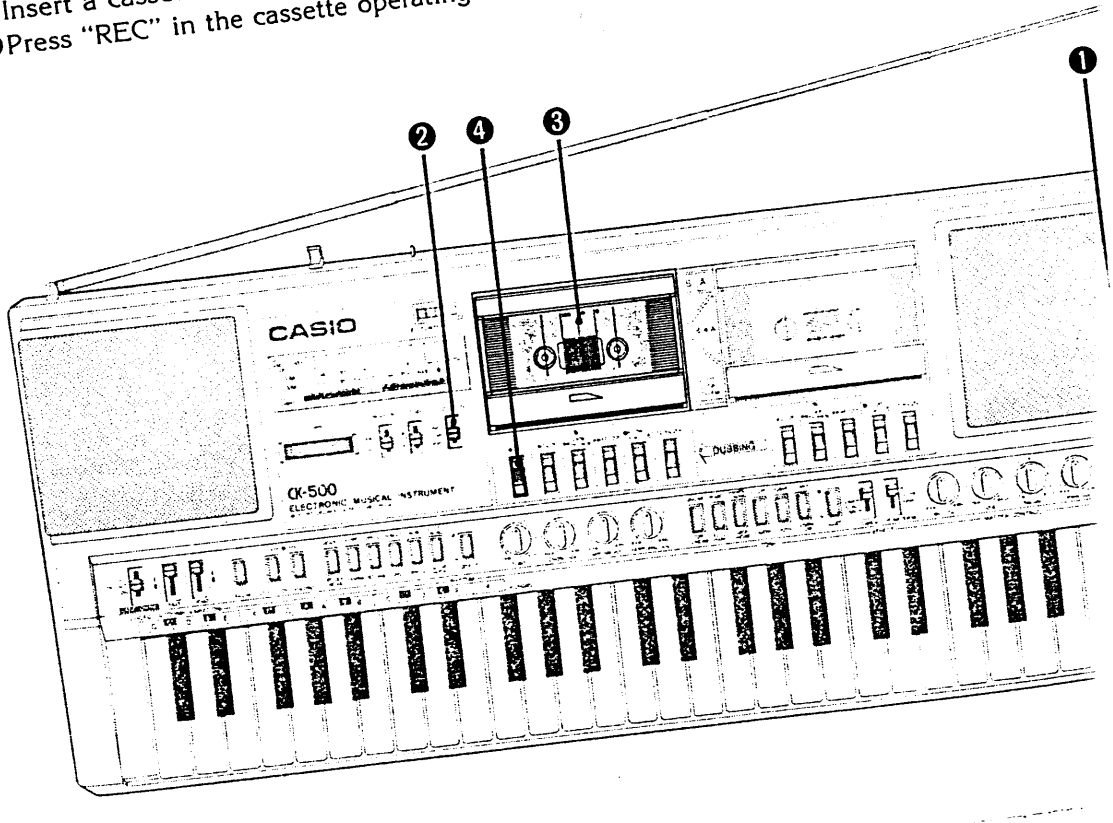
< Searching the beginning of a recording >

Lightly press the F.F./CUE or the REW/REVIEW button with the PLAY button depressed so that the tape travels fast with a squeak. When a blank of the tape passes the head, the squeak stops momentarily, thus enabling you to find the starting part of a recording. Releasing the button restart playback.

## ■ Recording

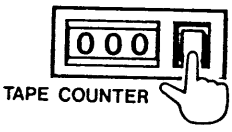
### Recording from radio

❶ Turn the POWER switch to "ON".
❷ Set the function switch to "RADIO".
❸ Insert a cassette tape into the B deck with the recording side facing upward.
❹ Press "REC" in the cassette operating buttons to start recording.



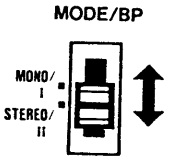
*** Tape counter**

Rewind the tape completely, and reset the tape counter to 000 by pressing the RESET button, then start recording. As the tape travels, the tape counter reads revolutions. If you take a note of the counter readings at the beginning and end of a recording, together with its title, the note will help you search the recording quickly.



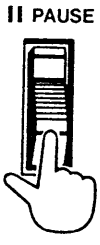

*** Beat Cut switch**

When recording AM radio, beats could be heard occasionally, which did not occur when simply listening to the same radio. If occurs, change the Beat Cut switch position so that beat stop. Normally, its set position is "I".




*** "PAUSE" button**

Pressing the "PAUSE" button during recording or playback stops the tape temporarily. To restart the tape, press the button again. It is of great help in editing a tape or making a note during recording. Also, it can be used to time the start of recording correctly to the music to be recorded in the following manner: Press "PAUSE" first, and then press "REC" prior to recording, and release "PAUSE" quickly when you start recording so you will not miss the timing.

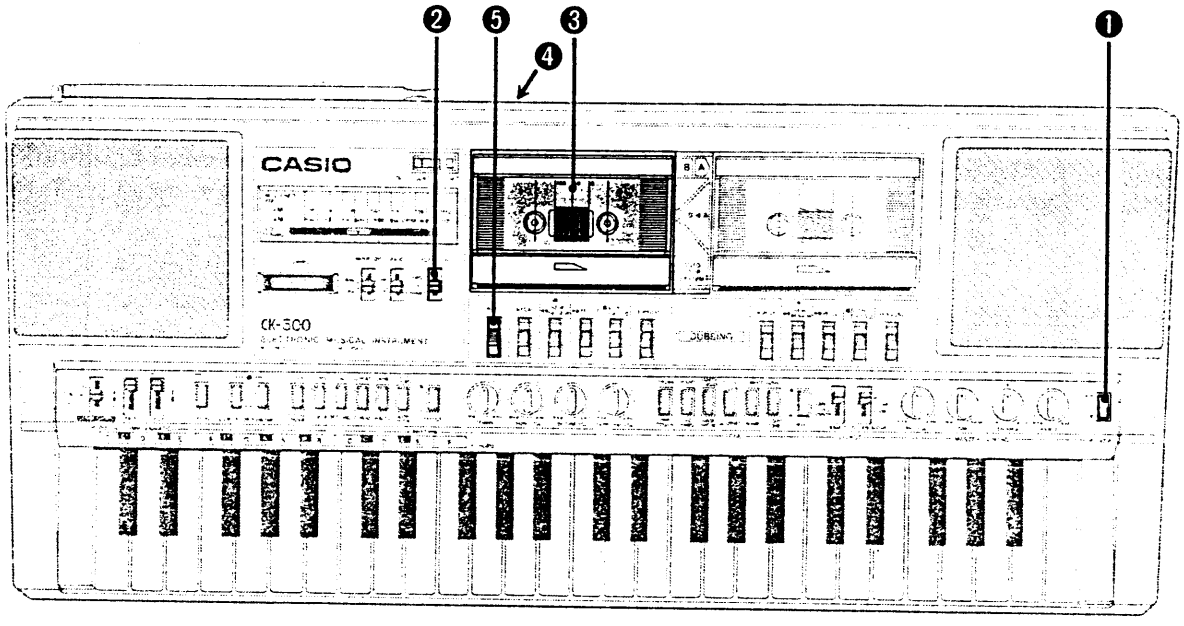



*** Automatic level control**

This unit employs an automatic level control system to automatically regulate the recording level.

## Recording from microphone

❶Turn the POWER switch to "ON".
❷Set the function switch to "TAPE".
❸Insert a cassette tape into the B deck with the recording side facing upward.
❹Plug the microphone into the "MIC" jack.
❺Press "REC" in the cassette operating buttons to start recording.

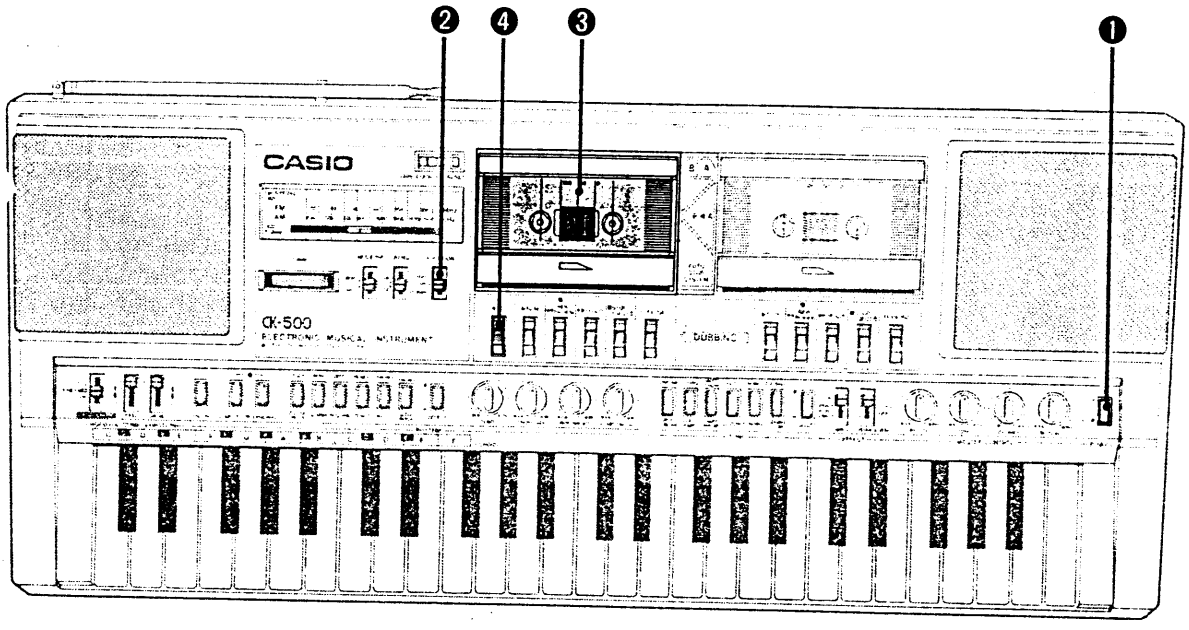



* **Erasing a recording: B deck**
A recording can be erased from the tape by making a new recording on it.

* **Erasing a recording without recording: B deck**
Turn on the POWER switch and set the function switch to "TAPE" (recording of microphone output). Press "REC" with the microphone plug pulled out.

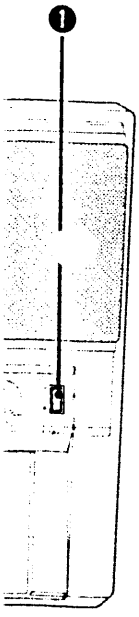
## Recording from keyboard

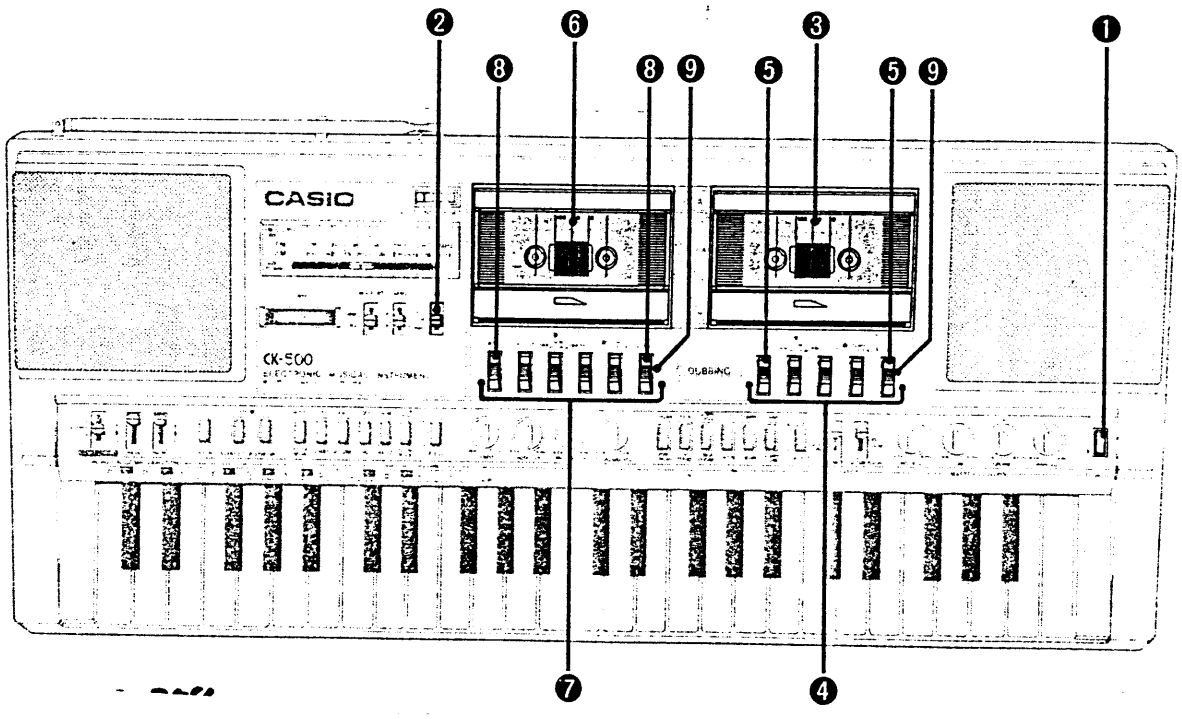
❶Turn the POWER switch to "ON".
❷Set the function switch to "keyboard".
❸Insert a cassette tape into the B deck with the recording side facing upward.
❹Press "REC" in the cassette operating buttons to start recording.



## ■ Dubbing

❶ Turn the POWER switch to "ON".
❷ Set the function switch to "TAPE".
❸ Insert a recorded tape into the A deck, with the recorded side facing upward.
❹ By operating the cassette operating button, locate the beginning of your desired music program.
❺ Press the "PAUSE" button on the A deck, and press the "PLAY" button so that the taperecorder is in the stand-by mode.
❻ Insert a blank tape into the cassette holder, with the recording side facing upward.
❼ By operating the cassette button on the B deck, locate the tape position at which recording should be started.
❽ Press the "PAUSE" button on the B deck, and press the "REC" button to set the taperecorder in the stand-by mode.
❾ Simultaneously press the "PAUSE" buttons on both the A deck and the B deck to start dubbing.






**NOTES:**

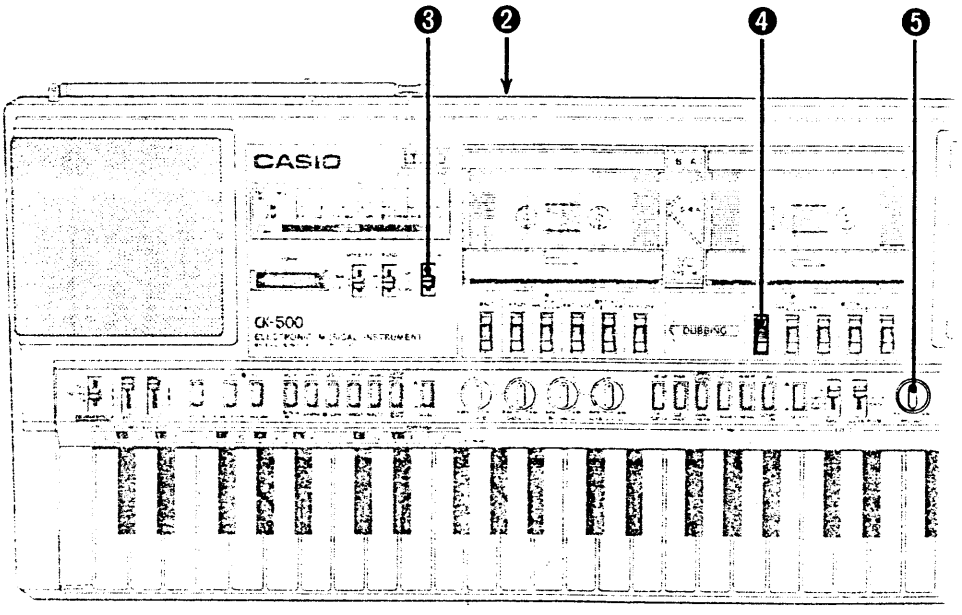
①Due to the difference in the tape length or tape speed between the A and B decks, the tape on the recording side may be wound up, in some cases, before the tape on the recorded tape side. When recording, the difference should be taken into consideration.

②If the microphone is left plugged into the "MIC" jack during dubbing, noise may enter through the microphone and recorded. Therefore, be sure to pull out the microphone when dubbing.

## ▪ Mixing

### Microphone and recorded tape

❶ Turn the POWER switch to "ON".
❷ Plug the microphone into the "MIC" jack.
❸ Set the function switch to "TAPE".
❹ Play back the tape.
❺ By turning the "MIC VOL" switch, adjust the microphone volume level to th level.
❻ Adjust the combined volume level properly by turning the "MAIN VOL" kn




**NOTE:**
If the microphone is held close to a speaker or if the volume is too high during ing (a howling sound from a speaker) may occur. So keep the microphone away or lower the volume by turning the "MAIN VOL" knob.

*** Simultaneous mixing and recording**
It is possible to make recording using the B deck while mixing.
① Proceed as specified in ❶ to ❻ above.
② Insert a cassette tape into the B deck with the recording side facing upw
③ Press "REC" in the cassette operating button to start recording.

## Microphone and radio

① Proceed as specified in ❶ to ❺ on "Listening to Radio". (Page.9)
② Plug the microphone into the "MIC" jack.
③ By turning the "MIC VOL" switch, adjust the microphone volume level to the tape volume level.
④ Adjust the combined volume level properly by turning the "MAIN VOL" knob.

*** Simultaneous mixing and recording**

① Proceed as specified in ❶ to ❹ above.
② Insert a cassette tape into the B deck with the recording side facing upward.
③ Press "REC" in the cassette operating button to start recording.

## Keyboard and microphone

① Proceed as specified in ❶ to ❹ on "Starting to play". (Page. 11)
② Plug the microphone into the "MIC" jack.
③ By turning the "KEYBOARD VOL" or "MIC VOL" switch, adjust the keyboard or microphone volume level.

*** Simultaneous mixing and recording**

① Proceed as specified in ❶ to ❸ above.
② Insert a cassette tape into the B deck with the recording side facing upward.
③ Press "REC" in the cassette operating button to start recording.

## Keyboard and recorded tape

① Proceed as specified in ❶ to ❹ on "Starting to play". (Page.11)
② Insert a recorded music tape in the A deck or B deck and play it back. Play the keyboard to a tape accompaniment. Your live performance can be mixed with tape music.
③ By turning the "KEYBOARD VOL" switch, adjust the keyboard volume level to the tape volume level.

*** Simultaneous mixing and recording**

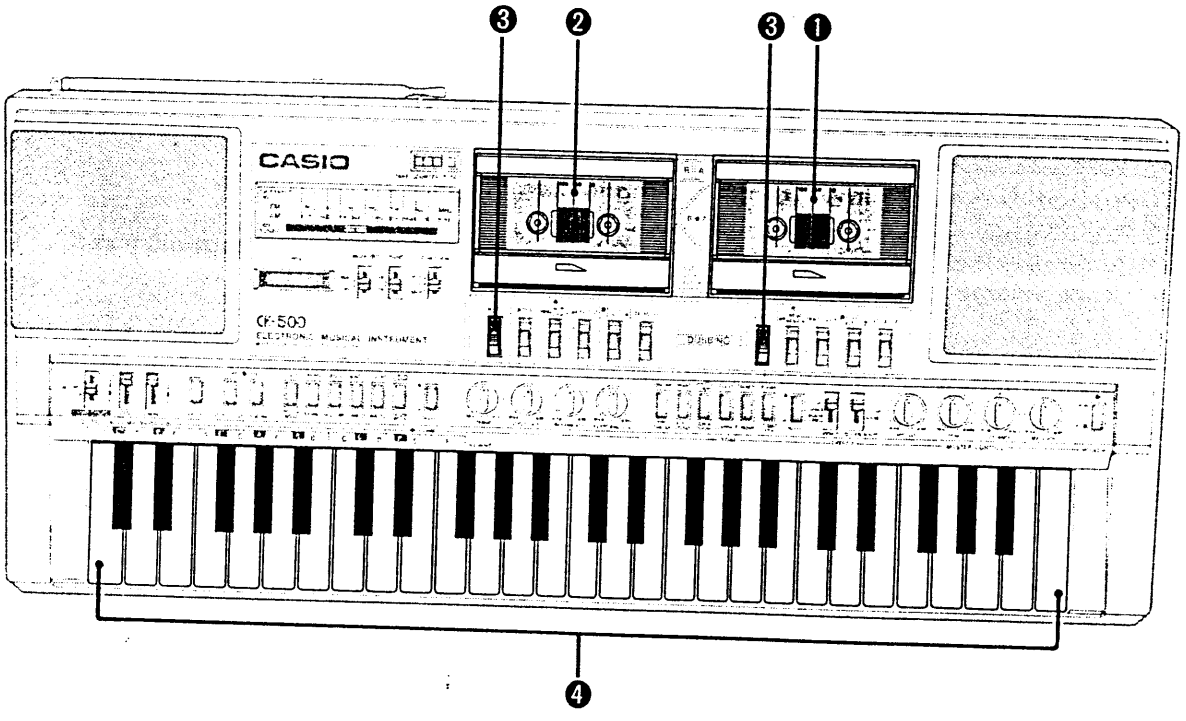
① Proceed as specified in ❶ to ❷ above. (Insert a recorded music tape in the A deck)
② Insert a cassette tape into the B deck with the recording side facing upward.
③ Press "REC" in the cassette operating button to start recording.

**NOTE:**
Auto-rhythm or Auto-accompaniment can be used on mixing.

## ■ Multi-phonetic recording

A multi-phonetic recording is possible by repeating a mixing of recordings.

❶ Insert a mixing-recorded tape into the A deck.
❷ Insert a blank tape into the B deck.
❸ Press the PLAY button on the A deck and then press the REC button on the B deck.
❹ Play the keyboard or use a microphone to the accompaniment of the mixing-recorded tape.

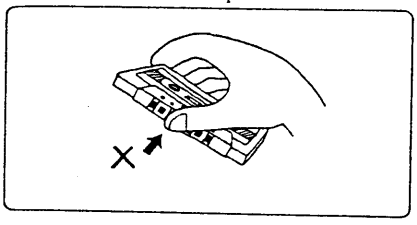


# NOTES ON CASSETTE TAPE

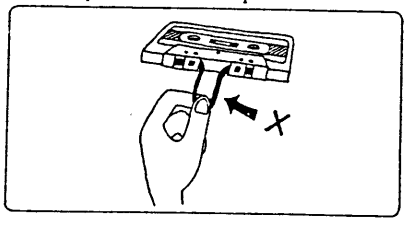
*** Precautions to be taken for cassette tape:**

To protect the cassette tape against damage, take the following precautions.

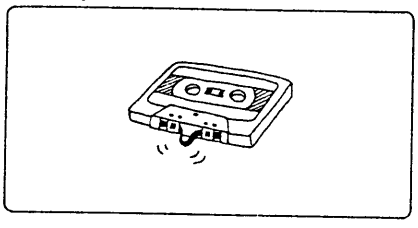
Never touch the tape surface.



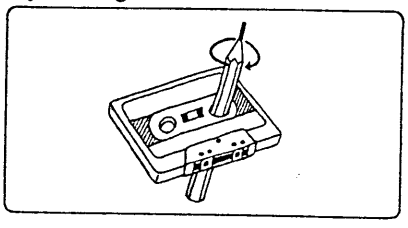
Never pull out the tape.



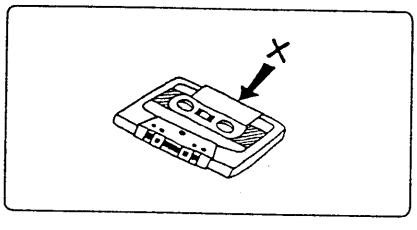
Any slack in the tape may break, stretch, or jam the tape.



Insert a pencil into the hob and remove the slack by turning it.



Do not stick any thick paper or tape on the cassette.

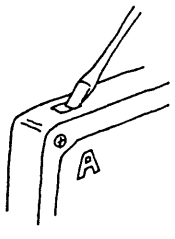


Avoid using the C-120 cassette tape. Being too thin, it may coil around the capstan or pinch roller. It is advisable to use the C-46, C-60, or C-90 type.

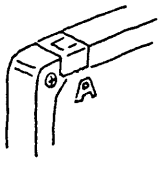
If any irregular winding of tape results, press the PLAY button so that it can be wound tidily.

*** Prevention of accidental erasure:**

The cassette has two safety lugs on its corners to protect an important recording against accidental erasure. With a pointed object, break out the safety lugs so that the cassette is not usable for recording. To use the tape again for recording, close the safety lug holes with Scotch tape or similar one.



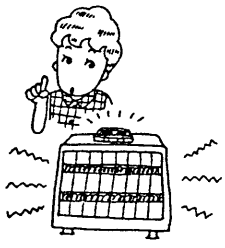
Breaking the safety lug on the upper left corner of the A side makes it impossible to erase a recording from the A side or make a recording on the A side.



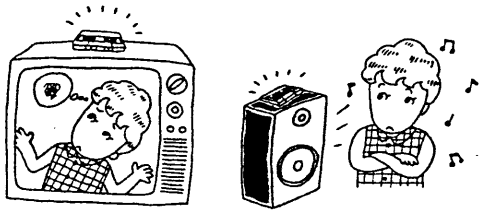
Close the safety lug hole with adhesive tape so that both erasure and recording are possible. (Use care not to close the hole for tape type sensor.)

*** Storing tape:**
Avoid storing tape in the following places:

Dusty place

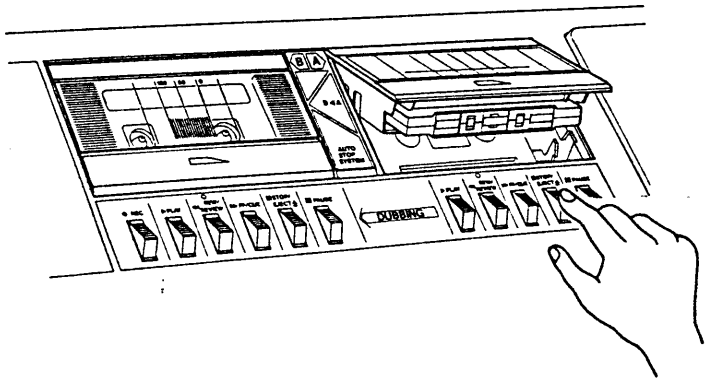


Humid place or near a heater



On top of a TV set or speaker where magnetic force is strong

*** Cassette tape loading:**
①Press the "STOP/EJECT" button to open the cassette holder.
②As shown, insert the cassette.
③Push the cassette holder cover to close.



# HEAD MAINTENANCE

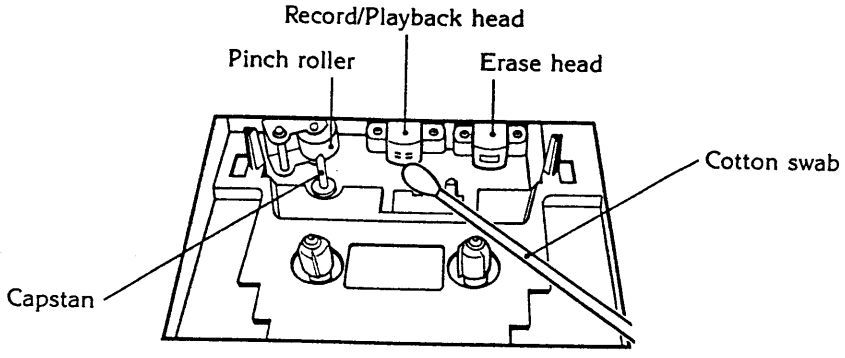
The record/playback head, capstan and pinch roller are always in contact with the tape when it is moving. If dust and dirt gathers on them (particularly on the heads), sound quality will deteriorate or noise will remain, and sometimes faulty operation will occur, such as tape entanglement etc. Please clean these parts occasionally in order to preserve good recording and playback sound.

ere magnetic

## Head Cleaning

① Press the EJECT button and open the lid of the cassette compartment.

② Clean the heads, capstan and pinch roller with commercially available cotton swabs or with a soft cloth wound around a slender object, putting a small amount of alcohol on the tip and wiping gently.




## Cleaning the Exterior

Clean the exterior of this unit by moistening a soft cloth with a neutral detergent (or just water if it is not too dirty), squeezing it until almost dry, and wiping gently. Never use thinner, alcohol, benzine or similar hemical agents as these may damage the surface of the unit.

# TROUBLESHOOTING CHART

Before you decide your CK-500 is malfunctioning and requires repairs, please check the following point again.

| Trouble | Cause | Solution |
|---|---|---|
| **No sound is heard.** | 1. The power cord is not connected.<br>2. The batteries are inserted with the poles (+)(−) reversed.<br>3. The battery are spent.<br>4. The function selector is not set to the right position.<br>5. The main volume is turned fully down.<br>6. Headphones are connected. | 1. Correctly connect the power cord.<br>2. Reinsert the batteries with correct (+)(−) polarity.<br>3. Replace all of the batteries with new ones.<br>4. Set to the correct position.<br>5. Adjust the main volume for an appropriate level.<br>6. Disconnect the headphones. |
| **Sound is reproduced by only one speaker** | Balance control is set to one side completely. | Set the balance control to the middle position. |
| **Noise in radio sound.** | Antenna is not positioned correctly. | Reposition the antenna. |
| **Tape does not run evenly. Rewinding and fast forward are slow, some times stop.** | 1. Batteries are spent.<br>2. Tape slack.<br>3. PAUSE button remains depressed. | 1. Replace all batteries with new ones.<br>2. Rewind the tape to take up the slack.<br>3. Press it to release. |
| **Recorded or reproduced sound distorted. Very strong noise.** | 1. Heads are dirty.<br>2. The batteries are spent.<br>3. Pinch roller and capstan are dirty. | 1. Clean the heads.<br>2. Replace all the batteries with new ones.<br>3. Clean the pinch roller and capstan. |
| **Mix-mixing is impossible.** | Microphone plug inserted incompletely. | Insert it correctly. |
| **Pressing "REC" button is impossible. (B deck)** | 1. Safety lug in cassette is broken.<br>2. No cassette loaded. | 1. Change the cassette. Close the lug holes with adhesive tape, if a recording needs to be erased.<br>2. Insert a cassette and press the operating button. |
| **Recording of radio or keyboarad is impossible.** | Function switch set to "TAPE". | Set function switch to the correct position. |
| **No rhythm or accompaniment heard.** | 1. The main volume is turned down.<br>2. The rhythm volume and cord volume is turned down. | 1. Turn up the main volume.<br>2. Turn up the rhythm volume and the cord volume. |

**NOTE:**
When the unit is brought into a warm place from a cold place (0°C or below), the unit may not operate.
Occasionally this trouble occurs due to some frosted inner parts. After 30 minutes or so, normal condition will be restored.



CARE

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**6. Do not**
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# CARE OF YOUR UNIT

### 1. Avoid heat, humidity or direct sunlight.

Do not overexpose the unit to direct sunlight, or place near an air conditioner or in any extremely hot place.

### 2. Take care not to drop the unit and avoid strong shocks.

A strong shock may cause malfunctions. When carrying or transpporting the unit, protect the keyboard and switches with soft materials.

### 3. Keep the unit free of liquids, dust, etc.

Do not allow bits and pieces to get between the keys or into the tape compartment, especially metallic objects such as hairpins, sewing needles or coins. Also do not let the unit get wet.

### 4. Never attempt to modify any parts of the unit.

The unit is a precision instrument, made up of electronic parts. Any modification of, or tampering with, inner parts may cause problems.

### 5. Do not apply a lacquer, thinner or similar chemicals.

Clean the keyboard with a soft cloth dampened with detergent. (Soak the cloth in a detergent and squeeze until almost dry.)

### 6. Do not forget to turn off the power switch.

After using the unit, be sure to turn off the power switch. If the unit is left for many hours with the power switched on, malfunctions may ocur. Also when not using the unit for a long period, unplug the AC cord.

### 7. In case of malfunction.

When the unit does not work properly, check whether switches, connections, etc. are set correctly as indicated in the troubleshooting chart on the page 29 of this manual. If the unit still doesn't work, please contact the original retailer or a nearby dealer. Never attempt to repair it yourself. It may result in serious damage of components.

# SPECIFICATIONS

| | |
|---|---|
| **■ Keyboard** | |
| **Number of keys:** | 49 keys, 4 octaves (mini-keyboard) |
| **Chords:** | 8-note polyphonic (simultaneous sounds: 8 notes at max.) |
| **Preset sounds:** | 12-sounds;<br>ORGAN, PIANO, HARPSICHORD, FLUTE, TRUMPET, FUNNY, PIPE ORGAN, ELECTRIC PIANO, VIBRAPHONE, CLARINET, HORN, COSMIC TONE. |
| **Sound effect:** | Vibrato, Delayed Vibrato, Sustain, Reverb. |
| **Built-in rhythms:** | 12-rhythms;<br>ROCK, POPS, DISCO, 16 BEAT, SWING, LATIN SWING, BOSSANOVA, SAMBA, BEGUINE, TANGO, WALTZ, SLOW ROCK |
| **Auto-Accompaniment function: (Casio Chord System)** | Casio Chord Switch (OFF/FINGERED/ON)<br>Bass Variation Switch (I/II/III/IV)<br>Chord Variation Switch (I/II/III/IV) |
| **Pitch control:** | ±1/4 tone (± 50 cents) |
| **■ Radio** | |
| **Frequency Bands:** | |

| | No. of bands | Received Frequency Ranges | | | |
|---|---|---|---|---|---|
| | | FM | AM(MW) | LW | SW |
| U.S.A., Canada | 2 | 88~108 MHz | 515~1630 KHz | — | — |
| European countries | 3 | 88~108 MHz | 515~1630 KHz | 150~360 KHz | — |
| Middle East, Latin America, Southest Asia, Africa, Oceania | 3 | 88~108 MHz | 515~1630 KHz | — | 7~22 MHz |

| | |
|---|---|
| **Antenna:** | FM telescopic antenna. AM ferrite bar antenna (Built-in). |
| **■ Taperecorder** | |
| **Track Layour:** | 4 track 2 channel (A deck/B deck) |
| **Recording system:** | AC bias (B deck) |
| **Erasing system:** | AC erasure (B deck) |
| **Head:** | playback x 1 (A deck), Record/playback x 1 (B deck), Erasure (B deck) |
| **Tape speed:** | 4.76 cm/sec |
| **Rewinding speed:** | Approx. 115 sec. (60 min.tape) |
| **Wow & flutter:** | 0.25% (A deck/B deck) |
| **Frequency Response:** | 80~10,000 Hz |

## ■ Common Section

| | |
|---|---|
| **Speakers:** | $\phi$ 120mm x 2 |
| **Input jack:** | Mixing mic (mini jack) x 1: Maximum input sensitivity 1 mV, input impedance 10 kohms |
| **Output jack:** | Line out (pin jack) x 2: Output voltage 1.2V, output impedance 17 kohms, Headphone (mini jack) x 1 |
| **Max. Output:** | 2W + 2W (DC)<br>3.15W + 3.15W (MPO) |
| **Power:** | • AC power using the supplied power cord. |

| | |
|---|---|
| U.S.A. and Canada | 120V, 60Hz |
| The United Kingdom and Australia | 240V, 50Hz |
| European countries | 220V, 50Hz |
| Other countries | 100,120,220 or 240, adjustable, 50/60Hz |

• DC 9V (6 SUM-1 batteries)

**Battery Life:**

| FM recording time | Music tape play time | Manual playing time |
|---|---|---|
| 14 hours. | 14 hours. | 18 hours. |

(Using SUM-1 batteries)

| | |
|---|---|
| **Power Consumption:** | 12 W |
| **Dimensions:** | 680W x 115H x 29Dmm |
| **Weight:** | 4.6 Kg (without batteries) |
| **Body colour:** | Metallic silver |
| **Accessories:** | Power cord |

* *Designs and specifications may be subject to change without notice.*

**GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).**

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna
..... relocate the computer with respect to the receiver
..... move the computer away from the receiver
..... plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.